

BIOMARKERS OF TOBACCO EXPOSURE: A PUBLIC WORKSHOP



CENTER FOR TOBACCO PRODUCTS (CTP)
FDA White Oak Conference Center
Building 31, Room 1503, 10903 New Hampshire Avenue
Silver Spring, MD 20993-0002
August 3-4, 2015
Agenda

Times and speaker order are tentative and subject to change without notice

Monday, August 3, 2015

8:30 am

Welcome and Introduction of Office Director

Carolyn Dresler, MD, MPA

Associate Director for Medical and Health Sciences, Office of Science

FDA Center for Tobacco Products

Opening Remarks

RADM David L. Ashley, PhD

Director, Office of Science

FDA Center for Tobacco Products

Biomarkers: An Overview

Cindy M. Chang, PhD, MPH

Epidemiologist, Office of Science

FDA Center for Tobacco Products

9:00 am

Session 1: Strategies for Identifying Potential Biomarkers for CTP Regulatory Use

Biomarker Basics: Validation, Qualification, Translation

William B. Mattes, PhD, DABT

FDA National Center for Toxicological Research

Biomarker Utility and Acceptance in Drug Development and Clinical Trials: An FDA Regulatory Perspective

Christopher Leptak, MD, PhD

FDA Center for Drug Evaluation and Research

Biomarkers in Risk Assessment: Use, Challenges, and Lessons Learned

Cecilia Tan, MS, MBA, PhD

EPA National Exposure Research Laboratory

10:30 am	Break
10:45 am	<p>Biomonitoring at the National Institute for Occupational Safety and Health CAPT D. Gayle DeBord, PhD CDC National Institute for Occupational Safety and Health</p> <p>Characterization of Biomarkers to Assess the Utility of Potential Reduced Exposure Tobacco Products: Status Update Dorothy Hatsukami, PhD University of Minnesota</p> <p>Integrating Biomarkers into Tobacco Regulatory Science Systems Raymond S. Niaura, PhD Schroeder Institute for Tobacco Research and Policy Studies</p>
12:00 pm	Lunch
1:00 pm	<p>Panel Discussion on Strategies for Identifying Potential Biomarkers for CTP Regulatory Use William B. Mattes, Christopher Leptak, Cecelia Tan, CAPT D. Gayle DeBord, Dorothy Hatsukami, Raymond S. Niaura, Stephen S. Hecht</p>
1:30 pm	<p><u>Session 2: Biomarkers of Exposure and Relationship with Disease Risk</u></p> <p>A Case Study on the Use of Biomonitoring at EPA: A Cumulative Assessment on Phthalates Matthew Lorber, MS EPA Office of Research and Development</p> <p>Biomarkers of Exposure to Tobacco Smoke and Risk of Cancer – The Shanghai Cohort Study Jian-Min Yuan, MD, PhD University of Pittsburgh</p> <p>Coherence of Human Findings with Animal Tumor Studies Irina Stepanov, PhD University of Minnesota</p>
3:00 pm	Break
3:15 pm	<p>Two Different Approaches for the Use of Biomarkers of Exposure in the Risk Assessment of Tobacco Products Kristin M. Marano, MS, MPH, CPH RAI Services Company</p> <p>Metals as Non-specific Tobacco Biomarkers of Cardiovascular Disease Miranda Jones, MHS, PhD Johns Hopkins University Bloomberg School of Public Health</p>

Relationship Between Biomarkers of Tobacco Exposure and Disease Risk

Mohamadi Sarkar, M.Pharm, PhD, FCCP

Altria Client Services

Leveraging Population Studies for Tobacco Biomarker Research

Neal Freedman, PhD, MPH

National Institutes of Health/National Cancer Institute

4:40 pm

Panel Discussion on Biomarkers of Exposure and Relationship with Disease Risk

Matthew Lorber, Jian-Min Yuan, Irina Stepanov, Kristin M. Marano, Miranda Jones, Mohamadi Sarkar, Neal Freedman, Cecilia Tan

5:00 pm

End of Workshop Day 1

Tuesday, August 4, 2015

8:30 am

Welcome

Carolyn Dresler, MD, MPA

Associate Director for Medical and Health Sciences

FDA Center for Tobacco Products

8:35 am

Public Comment Session

9:35 am

Session 3: Identifying Biomarkers of Tobacco Exposure for CTP Regulatory Use

Biomarkers of Exposure to Tobacco Carcinogens and Toxicants

Stephen S. Hecht, PhD

University of Minnesota

Biomarkers of Tobacco Exposure for CTP Regulatory Use: Utility and Challenges

Kimberly Frost-Pineda, PhD, MPH

Altria Client Services

Lessons from Clinical Studies Using Biomarkers of Exposure to Assess Toxicant Exposure

Christopher Proctor, BSc (Hon), PhD

British American Tobacco Research and Development

10:55 am

Break

11:10 am

Nicotine and Tobacco Alkaloids: Biomarkers of Tobacco Use and Exposure

Gideon St.Helen, PhD

University of California, San Francisco

Importance of Analytical Methods for Biomarker Measurement

Benjamin Blount, PhD

CDC National Center for Environmental Health

Biomarkers of Tobacco Exposure in Exhaled Breath

Marielle C. Brinkman, Senior Research Scientist
Battelle Public Health Center for Tobacco Research

12:40 pm

Lunch

1:40 pm

Panel Discussion on Identifying Biomarkers of Tobacco Exposure for CTP Regulatory Use

Stephen S. Hecht, Kimberly Frost-Pineda, Christopher Proctor, Gideon St.Helen,
Benjamin Blount, Marielle C. Brinkman

2:00 pm

Session 4: Biomarkers of Exposure in Smokeless Tobacco and Electronic Nicotine Delivery Systems (ENDS)

Biomarkers of Exposure for Smokeless Tobacco Products

Dorothy Hatsukami, PhD
University of Minnesota

A Multi-Center, Cross-Sectional Study Of U.S. Tobacco Users, Including Both Exclusive And Dual Use Of Cigarettes, Moist Snuff And A U.S. Snus Brand: Biomarkers Of Exposure

Michael F. Borgerding, PhD
RAI Services Company

New Biomarkers of Tobacco Exposure

Peyton Jacob, III, PhD
University of California, San Francisco

3:20 pm

Break

3:35 pm

Biomarkers of Exposure to Nicotine and Toxicants Among Exclusive Users of Electronic Cigarettes and Dual Users of Electronic and Tobacco Cigarettes

Maciej Goniewicz, PharmD, PhD
Roswell Park Cancer Institute

Toxicants in Biofluids Originated from Stable Isotopes of Propylene Glycol in eCigarettes

Raymond Fermen, PhD
Celerion

4:25 pm

Panel Discussion on Biomarkers of Exposure in Smokeless Tobacco and Electronic Nicotine Delivery Systems (ENDS)

Dorothy Hatsukami, Michael F. Borgerding, Peyton Jacob, III, Maciej Goniewicz,
Raymond Fermen, Stephen S. Hecht

4:55 pm

End of Workshop Day 2

The use of tobacco products, including e-cigarettes, is prohibited in all FDA facilities including buildings, grounds, and parking structures.